



Express Mail No. EV813998468US

Attorney Docket No. 337348021US

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<p>Substitute for form 1449A/B/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p><i>(Use as many sheets as necessary)</i></p>				Complete If Known	
				Application Number	09/978,134-Conf. #4196
				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3737
				Examiner Name	G. C. Manuel
Sheet	1	of	6	Attorney Docket Number	337348021US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Grid Code ² (if known)			
GM		US-2003-0097161-A1	05-22-2003	Firlik et al.	
		US-2003/0074032-A1	04-17-2003	Gliner	
		US-2003/0078633-A1	04-24-2003	Firlik et al.	
		US-2003/0088274-A1	05-08-2003	Gliner et al.	
		US-2004/0073270-A1	04-15-2004	Firlik et al.	
		US-2004/0082847-A1	04-29-2004	McDermott	
		US-2004/0092809-A1	05-13-2004	DeCharms	
		US-2004/0102828-A1	05-27-2004	Lowry et al.	
		US-2004/0111127-A1	06-10-2004	Gliner et al.	
		US-2004/0176831-A1	09-09-2004	Gliner et al.	
		US-2004/0181263-A1	09-16-2004	Balzer et al.	
		US-2004/0215287-A1	10-28-2004	Swoyer et al.	
		US-2004/0249422-A1	12-09-2004	Gliner et al.	
		US-2005/0021105-A1	01-27-2005	Firlik et al.	
		US-2005/0021106-A1	01-27-2005	Firlik et al.	
		US-2005/0021107-A1	01-27-2005	Firlik et al.	
		US-2005/0021118-A1	01-27-2005	Genau et al.	
		US-2005/0033378-A1	02-10-2005	Sheffield et al.	
		US-2005/0070971-A1	03-31-2005	Fowler et al.	
		US-2005/0075679-A1	04-07-2005	Gliner et al.	
		US-2005/0075680-A1	04-07-2005	Lowry et al.	
		US-2005/0154425-A1	07-14-2005	Boveja et al.	
		US-2005/0154426-A1	07-14-2005	Boveja et al.	
		US-2006/0015153-A1	01-19-2006	Gliner et al.	
		US-2,721,316	10-18-1955	Shaw	
		US-3,628,193	12-21-1971	Collins	
		US-4,214,804	07-29-1980	Little	
▼		US-4,245,645	01-20-1981	Picard et al.	
GM		US-4,590,946	05-27-1986	Loeb	

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------

Express Mail No. EV813998468US

Attorney Docket No. 337348021US

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Complete If Known	
Sheet	2	of	6	Application Number	09/978,134-Conf. #4196
				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3737
				Examiner Name	G. C. Manuel
				Attorney Docket Number	337348021US

GM	US-5,024,226	06-18-1991	Tan	
	US-5,282,468	02-01-1994	Klepinski	
	US-5,520,190	05-28-1996	Benedict et al.	
	US-5,601,611	02-11-1997	Fayram et al.	
	US-5,676,655	10-14-1997	McCulloch et al.	
	US-5,824,030	10-20-1998	Yang et al.	
	US-6,198,958	03-06-2001	Ives et al.	
	US-6,230,049-B2	05-08-2001	Fischell et al.	
	US-6,236,892	05-22-2001	Feler	
	US-6,280,462	08-28-2001	Hauser et al.	
	US-6,464,356	10-15-2002	Bernhard Sabel	
	US-6,484,059	11-19-2002	Gielen	
	US-6,597,954	07-22-2003	Pless et al.	
	US-6,615,065	09-02-2003	Barrett et al.	
	US-6,633,780	10-14-2003	Berger	
	US-6,839,594-B2	10-31-2002	Cohen et al.	
	US-6,892,097-B2	05-10-2005	Holsheimer	
	US-6,907,296-B1	06-14-2005	Doan et al.	
	US-6,934,580-B1	08-23-2005	Osorio et al.	
	US-6,944,497	09-13-2005	Stypulkowski	
	US-6,959,215-B2	06-10-2004	Gliner et al.	
▼	US-6,990,377-B2	01-06-2005	Gliner et al.	
	US-7,010,351-B2	03-07-2006	Firlik et al.	
GM	US-7,024,247-B2	01-29-2004	Gliner et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² -Number ³ -Kind Code ⁴ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
GM		EP-0319844 A	06-14-1989	Ad-Tech Medical Instruments Corp.	
GM		DE-19750043-A1	05-20-1999	Bartha et al.	

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------

Express Mail No. EV813998468US

Attorney Docket No. 337348021US

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	09/978,134-Conf. #4196
				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3737
				Examiner Name	G. C. Manuel
Sheet	3	of	6	Attorney Docket Number	337348021US

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ² CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ³ Applicant's unique citation designation number (optional). ⁴ See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ⁵ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁶ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁷ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (In CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
GM		BARR, Deborah et al., "Induction and Reversal of Long-Term Potentiation by Low- and High- Intensity Theta Pattern Stimulation," The Journal of Neuroscience, 15(7): pp. 5402-5410 (July 1995)			
		BLUESTONE, Avraham Y. et al., "Three-dimensional optical tomography of hemodynamics in the human head," Optics Express, Vol. 9, No. 6, pp: 272-286 (September 10, 2001)			
		Brain Electrical Stimulation to Enhance Recovery After Stroke. ClinicalTrials.gov. [Retrieved on 12-22-2005]. Retrieved from the internet <URL: http://www.clinicaltrials.gov/ct/show/NCT00085657?order=2 >			
		BURNETT, Mark G. et al., "Diffuse optical measurement of blood flow, blood oxygenation, and metabolism in a human brain during sensorimotor cortex activation," Optics Letters, Vol. 29, No. 15, pp: 1766-1768 (August 1, 2004)			
		CAO, Yue et al., "Cortical Language Activation in Stroke Patients Recovering From Aphasia With Functional MRI," Stroke, Vol. 30, pp: 2331-2340, November 1999			
		Cytokines Web Clinical Significance. Cytokines Web, 2 pages. [Retrieved on 9-2-2005]. Retrieved from the internet: <URL: http://cmbi.bjmu.edu.cn/cmbidata/cgf/CGF_Database/cytweb/roles/index.html >			
		DE RIDDER, Dirk et al., "Magnetic and electrical stimulation of the auditory cortex for intractable tinnitus," Journal Neurosurg., Vol. 100, pp: 560-564, (March 2004)			
		DING, Yuemin et al., "Neural Plasticity After Spinal Cord Injury," Current Pharmaceutical Design Vol. 11, No. 11, pp: 1441-1450, Abstract Only- 1 page (April 2005)			
		DUNCAN, Pamela W. et al., "Defining post-stroke recovery: implications for design and interpretation of drug trials," Neuropharmacology Vol. 39, pp. 835-841 (2000)			
GM		FREGNI, Felipe et al., "Anodal Transcranial Direct Current Stimulation of Prefrontal Cortex Enhances Working Memory," Experimental Brain Research Vol. 166, No. 1, pp: 23-30 (September 2005)			
GM		HAGEMANN, Georg et al., "Increased Long-Term Potentiation in the Surround of Experimentally Induced Focal Cortical Infarction," Annals of Neurology, Vol. 44, No. 2, pp. 255-258 (August 1998)			

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	09/978,134-Conf. #4196
				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3737
				Examiner Name	G. C. Manuel
Sheet	4	of	6	Attorney Docket Number	337348021US

GM		HAYAKAWA, Toshiji et al., "Changes in Cerebral Oxygenation and Hemodynamics During Obstructive Sleep Apneas," Chest, Vol. 109, pp: 916-921 (1996)
		HOSHI, Yoko et al., "Detection of dynamic changes in cerebral oxygenation coupled to neuronal function during mental work in a man," Neuroscience Letters, Vol. 150, pp: 5-8 (1993)
		HOSHINO et al., "Application of multichannel near-infrared spectroscopic topography to physiological monitoring of the cortex during cortical mapping: technical case report," Surgical Neurology, Vol. 64, pp. 272-275 (2005)
		How Imagent™ Works. ISS Inc., 1 page [Retrieved on 10-14-2005]. Retrieved from the internet: <URL http://www.iss.com/Products/imagenet_fmri.html >
		HUANG, Ying-Zu et al., "Theta Burst Stimulation of the Human Motor Cortex," Neuron, Vol. 45, pp. 201-206 (January 20, 2005)
		Imagenet™ Functional Brain Imaging System. ISS, Inc., 2 pages [Retrieved on 10-14-2005]. Retrieved from the internet: <URL http://www.iss.com/Products/imagenet.html >
		Imagenet™ functional Near Infrared Imaging System (fNIRS) Brain Imaging Using Infrared Photons. ISS Inc., 8 pages [Retrieved on 10-14-2005]. Retrieved from the internet: <URL http://www.iss.com/products/imagenet/Imagenet.pdf >
		International Search Report and Written Opinion for PCT/US02/32695, Applicant: Northstar Neuroscience, Inc., 8 pages, December 27, 2002 and June 24, 2003
		JANICEK, Milos J. et al., "Dynamic Infrared Imaging of Newly Diagnosed Malignant Lymphoma Compared with Gallium-67 and Fluorine-18 Fluorodeoxyglucose (FDG) Positron Emission Tomography," Technology in Cancer Research and Treatment, Vol. 2, No. 6, pp: 571-577 (December 2003)
		L-DOPA dyskinesias. BioChemistry of PD. [Retrieved on 12-22-2005]. Retrieved from the internet <URL < http://www.mayo.edu/fpm/pd-info/dyskinesias.htm >>
		LARSON, John et al., "Reversal of LTP by theta frequency stimulation," Brain Research, 600: pp. 97-102 (1993)
		MANSUR, C.G., et al., "A sham stimulation-controlled trial of rTMS of the unaffected hemisphere in stroke patients," Neurology, Vol. 64, pp. 1802-1804 (2005)
		MARTIN et al, "Transcranial Magnetic Stimulation as a Complementary Treatment for Aphasia," Semin Speech Language, Vol. 25, pp: 181-191 (2004) Abstract Only- 1 page
↓		MEYERSON, B.A. et al., "Motor Cortex Stimulation as Treatment of Trigeminal Neuropathic Pain", Acta Neurochirurgica Supplementum, Vol. 58, pp: 150-153 (1993)
GM		PANCHANATHAN, Sethuraman et al., "Rehabilitation of patients with hemispatial neglect using visual-haptic feedback in Virtual reality environment," [Retrieved on 12-22-2005]. Retrieved from the internet <URL < http://www.public.asu.edu/~tmcdani/publications.htm >>

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------

Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	09/978,134-Conf. #4196
				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3737
				Examiner Name	G. C. Manuel
Sheet	5	of	6	Attorney Docket Number	337348021US

GM		PAULUS, Walter, "Toward Establishing a Therapeutic Window for rTMS by Theta Burst Stimulation," <i>Neuron</i> , Vol. 45, pp. 181-183 (January 20, 2005)	
		PENN, Michael, "Stemming Parkinson's," <i>On Wisconsin Alumni Magazine</i> , Summer 2003, [Retrieved on 12/22/2005]. Retrieved from the internet <URL: http://www.uwalumni.com/onwisconsin/2003_summer/research.html >	
		SCHAEFER, Pamela W. et al., "Assessing Tissue Viability with MR Diffusion and Perfusion Imaging," <i>AJNR</i> , 24: pp.436-443 (March 2003)	
		SCHIENE, Klaus et al., "Neuronal Hyperexcitability and Reduction of GABA-Receptor Expression in the Surround of Cerebral Photothrombosis," <i>Journal of Cerebral Blood Flow and Metabolism</i> , Vol. 16, No. 5, pp. 906-914 (1996)	
		SCIRun. Scientific Computing and Imaging Institute, 2 pages. [Retrieved on 7-24-2005]. Retrieved from the internet: <URL: http://software.sci.utah.edu/scirun.html >	
		STRANGMAN, Gary et al., "A Quantitative Comparison of Simultaneous BOLD fMRI and NIRS Recordings during Functional Brain Activation," <i>NeuroImage</i> , Vol. 17, pp: 719-731 (2002)	
		STRANGMAN, Gary et al., "Factors affecting the accuracy of near-infrared spectroscopy concentration calculations for focal changes in oxygenation parameters," <i>NeuroImage</i> , Vol. 18, pp: 865-879 (2003)	
		STRANGMAN, Gary et al., "Non-Invasive Neuroimaging Using Near-Infrared Light," <i>Biological Psychiatry</i> , Vol. 52, pp: 679-693 (2002)	
		TAGA, Gentaro et al., "Brain imaging in awake infants by near-infrared optical topography," <i>PNAS</i> , Vol. 100, No. 19, pp:10722-10727 (September 16, 2003)	
		TANG, Cha-Min et al., "Optical Coherence Tomography of the Human Basal Ganglion," <i>Deep Brain Stimulation Consortium Meeting Program Book</i> , September 29-30, 2003, Washington DC	
		The GES 250 for Dense-Array EEG Research. Electrical Geodesics, Inc., 3 pages. [Retrieved on 8-25-2005]. Retrieved from the internet: <URL: http://www.eeg.com/ges250r_n.html >	
		The INVOS Cerebral Oximeter. Somanetics, 1 page [Retrieved on 12-22-2005]. Retrieved from the internet <URL < http://www.somanetics.net/invos.htm >>	
		THEORET, Hugo et al., "Exploring Paradoxical Functional Facilitation with TMS," <i>Supplements to Clinical Neurophysiology</i> , Vol. 56, pp: 211-219 (2003)	
▼		THOMAS, Carmen et al., "Do Children with aggressive behavior have temporal lobe changes?" <i>Alasbimn Journal</i> , Year 5, No. 19, 8 pages (January 2003)	
GM		TIMMERMANN, Lars et al., "The cerebral oscillatory network of parkinsonian resting tremor," <i>Brain</i> , Vol. 26, pp: 199-212, (2003)	

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------

Express Mail No. EV813998468US

Attorney Docket No. 337348021US

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	09/978,134-Conf. #4196
				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3737
				Examiner Name	G. C. Manuel
Sheet	6	of	6	Attorney Docket Number	337348021US

GM	TORONOV, Vlad et al., "Near-infrared study of fluctuations in cerebral hemodynamics during rest and motor stimulation: Temporal analysis and spatial mapping," Medical Physics, Vol. 27, No. 4, pp: 801-815 (April 2000)	
GM	Tractography. Absolute Astronomy Reference, 2 pages. [Retrieved on 7-24-2005]. Retrieved from the internet: <URL: http://www.absoluteastronomy.com/encyclopedia/T/Tr/Tractography.htm >	
GM	TSUBOKAWA, T. et al., "Chronic Motor Cortex Stimulation for the Treatment of Central Pain", Acta Neurochirurgica Supplementum, Vol. 52, pp: 137-139 (1991)	
GM	TSUBOKAWA, T. et al., "Treatment of Thalamic Pain by Chronic Motor Cortex Stimulation", PACE, Vol. 14, pp: 131-134 (January 1991)	
GM	WEINAND, Martin E. et al., "Cerebral blood flow and temporal lobe epileptogenicity," [Retrieved on December 22, 2005]. Retrieved from the internet: <URL http://www.aans.org/education/journal/neurosurgical/nov96/1-5-3.asp >	
GM	YOKOH, Akira et al., "Intermittent versus continuous brain retraction," Journal of Neurosurgery, Vol. 58, pp: 918-923 (June 1983)	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------



Express Mail No. EV813998352US

Attorney Docket No. 337348021US

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/978,134-Conf. #4196
(Use as many sheets as necessary)				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3737
				Examiner Name	G. C. Manuel
Sheet	1	of	1	Attorney Docket Number	337348021US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
GM	US-2006/0106430-A1	05-18-2006	Fowler et al.		
	US-2006/0106431-A1	05-18-2006	Wyler et al.		
	US-4,328,813	05-11-1982	Ray		
	US-5,464,446	11-07-1995	Dreessen et al.		
	US-5,782,873	07-21-1998	Collins		
	US-5,865,842	02-02-1999	Knuth et al.		
	US-6,210,417	04-03-2001	Baudino et al.		
↓	US-6,356,792	03-12-2002	Enrico		
GM	US-6,556,868	04-29-2003	Naritoku et al.		

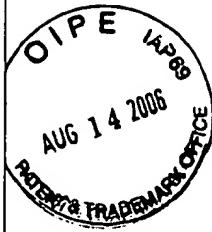
FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code ³ -Number-Kind Code ³ (if known)			
					T ⁴

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. *CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.58(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. *Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
GM		BURY, Scott et al., "The Effects of Behavioral Demand on Motor Cortical and Cerebellar Structural Plasticity After Brain Injury in Adult Rats," [Retrieved on March 1, 2003]. Retrieved from the internet: <URL: http://www.mcmaster.ca/inabis98/schallert/bury0827/two.html#introduction >			
GM		KEYVANI, Kathy et al., "Suppression of proteasome C2 contralateral to ischemic lesions in rat brain," Brain Research, Vol. 858, pp: 386-392, 2000			
GM		NUDO, Randolph J., et al., "Recovery after damage to motor cortical areas," Current Opinion in Neurobiology, Vol. 9, Issue 6, pp: 740-747, December 1, 1999			

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------



337348021US

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	09/978,134-Conf. #4196
				Filing Date	October 15, 2001
				First Named Inventor	Bradford E. Gliner
				Art Unit	3762
				Examiner Name	G. C. Manuel
Sheet	1	of	1	Attorney Docket Number	337348021US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
GM		20040131998-A1	07-08-2004	Marom et al.	
		3,918,461	11-11-1975	Cooper	
		4,030,509	06-21-1977	Hellman	
		4,125,116	11-14-1978	Fischell	
		4,702,254	10-27-1987	Zabara	
		4,969,468	11-13-1990	Byers et al.	
		5,063,932	11-12-1991	Dahl et al.	
		5,184,620	02-09-1993	Cudahy et al.	
		5,271,417	12-21-1993	Swanson et al.	
		5,405,375	04-11-1995	Ayers et al.	
		5,562,708	10-08-1996	Combs et al.	
		5,611,350	03-18-1997	John	
		6,040,180	0-21-2000	John	
▼		6,873,872	03-29-2005	Gluckman	
GM		6,895,280	05-17-2005	Meadows et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
					T ⁶

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(a)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------



337348021US

PTO/SB/08a/b (07-05)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

				Complete if Known
Application Number	09/978,134-Conf. #4196			
Filing Date	October 15, 2001			
First Named Inventor	Bradford E. Gliner			
Art Unit	3762			
Examiner Name	G. C. Manuel			
Sheet	2	of	1	Attorney Docket Number 337348021US

NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
GM		BARRES, et al., "Proliferation of oligodendrocyte precursor cells depends on electrical activity in axons," Nature; Medical Research Council Developmental Neurobiology Programme, Department of Biology, University College, London, p258, (January 21, 1993)	
GM		CHEUN et al., "Differentiation of a Stem Cell Line Toward a Neuonal Phenotype," Int. J. Devl. Neuroscience, Vol. 9, No. 4, pp. 391-404 (1991)	
GM		ISHIBASHI, Tomoko et al., "Astrocytes Promote Myelination in Response to Electrical Impulses," Neuron 49, pp. 823-832, (March 16, 2006)	
GM		ROBINSON, Kenneth R., "The Responses of Cells to Electrical Fields: A Review," the Journal of Cell Biology, Vol. 101, pgs. 2023-2027 (December 1985)	

¹EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

²Applicant's unique citation designation number (optional). ³Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	/George Manuel/	Date Considered	08/28/2006
--------------------	-----------------	-----------------	------------